

# NEMA Single Phase Rolled Steel ODP Motors

## Cast iron endshield

### 1/4HP thru 10HP

• 48 thru 215T

#### FEATURES

- Service Factor 1.15
- Continuous Duty 40°C Ambient
- ODP Class F Insulation With Class B Temp Rise
- NEMA Design L
- High Starting Torque and Low Starting Current
- Rolled Steel construction
- Ball Bearings
- Capacitor Start/Capacitor Run (1/4 thru 10HP)

#### APPLICATIONS

- Commercial Pumps
- Swimming Pool Pumps
- Fans
- Conveyors
- Air Conditioning Equipment A.K.A HVAC
- Small Machine Tools
- Blowers
- Augers
- Household Electric Appliances
- Equipment Requiring Direct Drive and High Starting Torque

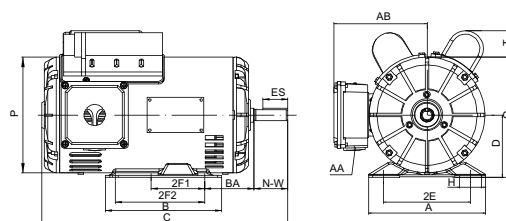
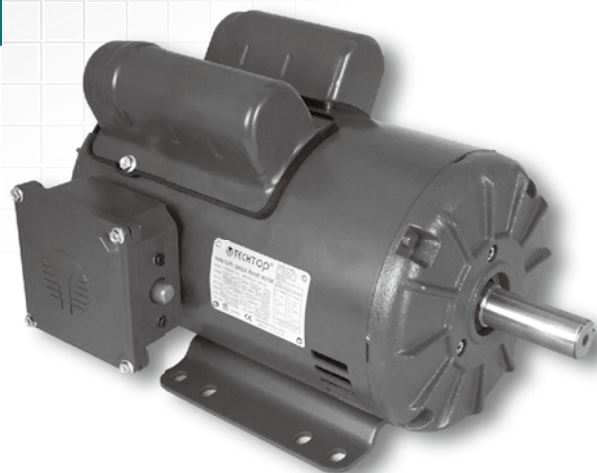


Figure1 48 thru 140T (Foot Mounting)

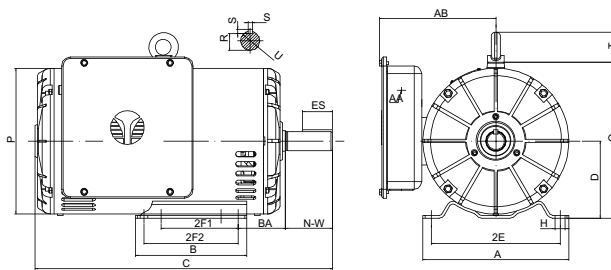


Figure2 180T, 210T (Foot Mounting)

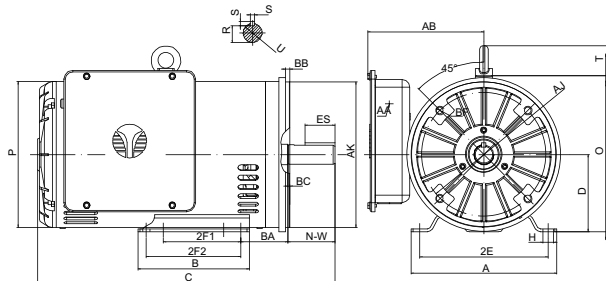


Figure3 180T, 210T (C-Face)

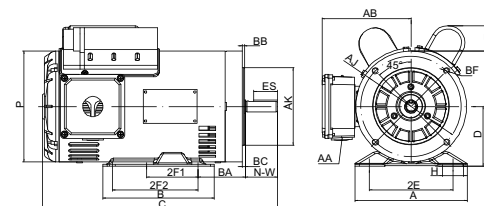


Figure4 48 thru 140T (C-Face)

## Overall & Installation Dimensions

Frame	Foot Mounting								Shaft				General					Bearings		C-Face					
	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	DE	NDE	AJ	AK	BB	BC	BF
48	5.69	3.94	3.0	4.24	2.75		2.50	1.05×0.34	0.50	1.50	0.453			0.866	4.77	5.83	1.47	5.67	6203	6202	3.750	3.0	0.16	-0.19	4×1/4-20UNC
56	6.54	4.02	3.5	4.88	3		2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	0.866	4.77	6.33	1.47	5.67	6204	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC
56H	6.54	6.5	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	0.866	5.2	6.75	1.47	6.46	6205	6203	5.875	4.5	0.16	-0.19	4×3/8-16UNC
140T	6.55	5.9	3.5	5.5	4	5	2.25	0.5×0.35	0.875	2.25	0.771	1.375	0.1875	0.866	5.2	6.75	1.47	6.46	6205	6203	5.875	4.5	0.16	0.12	4×3/8-16UNC
180T	8.5	6.5	4.5	7.5	4.5	5.5	2.75	0.59×0.433	1.125	2.75	0.986	1.75	0.25	1.1/1.33	6.4	9.1	1.75	8.51	6206	6205	7.25	8.5	0.25	0.12	4×1/2-13UNC
210T	10.5	8.5	5.25	8.5	5.5	7	3.5	0.56×0.433	1.375	3.375	1.201	2.41	0.312	1.1/1.33	7.15	10.65	1.75	10.04	6208	6206	7.25	8.5	0.25	0.25	4×1/2-13UNC



# Single-Phase Rolled Steel Frame ODP Motors Technical Data

HP	Full Load Speed, RPM	Frame Size	EFF.100% FL	Power Factor 100% FL	IFL 230V A	Full Load Torque Lb-Ft	Moment Of Inertia Lb-Ft Squared	Locked Rotor		TST TFL	TM TFL	Service Factor	Dim "C"
								KVA Code	II/In				
1/4	3500	48	66.6	90	1.31	0.36	0.0069	L	8.00	3.1	2.2	1.15	10.8
		56											11.1
	1740	48	68.5	81	1.41	0.72	0.0261	K	6.20	3	2.4	1.15	10.8
		56											11.1
1/3	3500	48	70.5	90	1.71	0.5	0.0073	L	8.00	3.1	2.3	1.15	10.8
		56											11.1
	1740	48	72.4	81	1.85	1.01	0.0355	K	6.70	3.3	2.5	1.15	11.4
		56											11.7
1/2	3510	48	72.4	90	2.47	0.74	0.0085	L	8.20	3.3	2.6	1.15	11.4
		56											11.7
	1740	48	76.2	83	2.54	1.49	0.0451	H	5.80	2.8	2.4	1.15	12
		56											12
3/4	3510	48	76.2	92	3.41	1.10	0.0104	K	8.20	3.3	2.5	1.15	12
		56											12.3
	1750	56H	81.8	90	3.25	2.21	0.0854	H	6.50	2.7	2.3	1.15	12.9
		140T											13.3
1	3500	56H	80.4	92	4.41	1.50	0.0356	H	7.0	3.3	2.5	1.15	12.9
		140T											13.3
	1750	56H	82.6	90	4.39	3.01	0.1079	H	7.0	2.8	2.5	1.15	13.7
		140T											14.1
1.5	3500	56H	81.5	96	6.11	2.21	0.045	H	7.5	3.2	2.7	1.15	13.7
		140T											14.1
	1740	56H	83.8	96	5.94	4.45	0.1423	H	6.9	2.5	2.3	1.15	14.9
		140T											15.3
2	3500	56H	82.9	96	8.19	3.01	0.0522	H	6.8	3.1	2.6	1.15	13.7
		140T											14.1
	1740	56H	84.5	96	8.04	6.07	0.1637	G	6.5	2.6	2.0	1.15	15.7
		140T											16.1
3	3510	56H	84.1	98	11.6	4.41	0.0688	J	8.4	3.1	2.7	1.15	14.5
		140T											14.9
	3480	180T	80.0	96	12.5	4.45	0.1636	H	7.2	4.1	2.2	1.15	16
5	1740	180T	82.5	92	12.6	8.90	0.3559	H	7.0	3.5	2.4	1.15	16
	3490	180T	82.0	98	20.0	7.46	0.2017	H	7.0	3.5	2.0	1.15	17.4
7.5	1740	180T	84.0	94	20.4	14.97	0.4746	G	6.4	3.2	2.2	1.15	17.4
	3510	210T	84.5	98	28.9	11.03	0.4508	H	7.6	4.2	2.2	1.15	19.5
10	1750	210T	82.0	94	31.1	22.13	0.9017	H	7.0	4	2.4	1.15	19.5
	3520	210T	86.0	98	38.7	15.00	0.6169	H	8.0	3.9	2.4	1.15	20.9
10	1750	210T	83.5	94	41.6	30.18	1.0916	H	7.3	3.5	2.2	1.15	20.9

IEC MOTOR

FIRE PUMP MOTOR

GOST MOTOR

NEMA MOTOR

DC MOTOR

EC MOTOR

# NEMA Single Phase Rolled Steel ODP Motors

## Alu die casting endshield

### 1/4HP thru 3HP

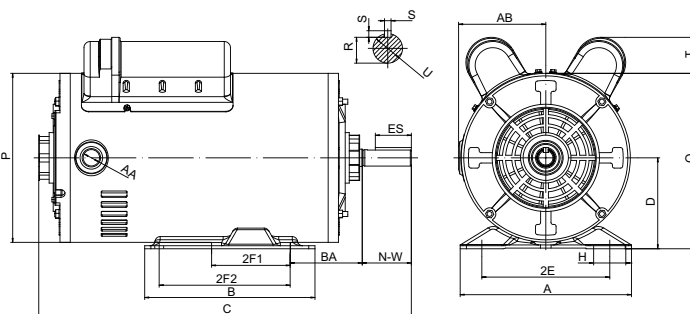
• 48 thru 140T

#### FEATURES

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#### Overall & Installation Dimensions

Frame	A	B	D	2E	2F1	2F2	BA	H	U	N-W	R	ES	S	AA	AB	O	T	P	Bearing DE	Bearing NDE
48	5.69	3.94	3.0	4.24	2.75	2.50	1.05×0.34	0.50	1.50	0.453	1/2-14NPT	2.92	5.83	1.47	5.67	6.20	3	6.20	3	
56	6.54	4.02	3.5	4.88	3	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	2.92	6.33	1.47	5.67	6.20	3	
56H	6.54	6.5	3.5	4.88	3	5	2.75	1.22×0.34	0.625	1.875	0.517	1.375	0.1875	1/2-14NPT	3.33	6.75	1.47	6.46	6.20	3
140T	6.55	5.9	3.5	5.5	4	5	2.25	0.5×0.35	0.875	2.25	0.771	1.375	0.1875	1/2-14NPT	3.33	6.75	1.47	6.46	6.20	3



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								KVA Code	II/In				
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		56											10.5
		48											10.1
1/3	3500	48	70.5	90	1.71	0.5	0.0073	L	8.00	3.1	2.3	1.15	10.1
		56											10.5
		48											10.7
1/2	3510	48	72.4	90	2.47	0.74	0.0085	L	8.20	3.3	2.6	1.15	10.7
		56											11.1
		48											11.3
3/4	3510	48	76.2	83	2.54	1.49	0.0451	H	5.80	2.8	2.4	1.15	11.7
		56											11.3
		48											11.7
1	3510	48	76.2	92	3.41	1.10	0.0104	K	8.20	3.3	2.5	1.15	11.3
		56											11.7
		56H											12.3
1.5	3500	56H	81.8	90	3.25	2.21	0.0854	H	6.50	2.7	2.3	1.15	12.7
		140T											12.7
		56H											12.3
2	3500	56H	80.4	92	4.41	1.50	0.0356	H	7.0	3.3	2.5	1.15	12.7
		140T											12.7
		56H											13.1
3	3500	56H	81.5	96	6.11	2.21	0.045	H	7.5	3.2	2.7	1.15	13.1
		140T											13.5
		56H											13.1
3	1740	56H	83.8	96	5.94	4.45	0.1423	H	6.9	2.5	2.3	1.15	14.3
		140T											14.7
		56H											13.1
3	3510	56H	82.9	96	8.19	3.01	0.0522	H	6.8	3.1	2.6	1.15	13.1
		140T											13.5
		56H											15.1
3	1740	56H	84.5	96	8.04	6.07	0.1637	G	6.5	2.6	2.0	1.15	15.5
		140T											15.5
		56H											13.9
3	3510	56H	84.1	98	11.6	4.41	0.0688	J	8.4	3.1	2.7	1.15	14.3
		140T											14.3
		56H											14.3